



# Ganesh Kishore

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## Summary

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Biotechnology student with a background in software and electronics engineering, driven by a strong interest in food and biochemical engineering.

## Education

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### University of Wroclaw (UWr), Wroclaw, Poland

BSc in Biotechnology

September 2025 – Present

### Chhattisgarh Institute of Medical Sciences (CIMS), Bilaspur

Bachelor of Medicine, Bachelor of Surgery (MBBS)

Transferred to UWr after the first year.

September 2023 – January 2025

## Languages

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English (C1 – Fluent)

Polish (B1–B2 – Intermediate)

Hindi (Native)

## Projects

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### Smart Tracking Software

Apr 2025 – May 2025 Apr 2025 – May 2025

- Developed software to detect and track unauthorized file distribution across P2P networks (torrents and magnet links).
- Implemented magnet scraping using the **Jackett API** and peer discovery using the **qBittorrent API**, followed by the **ipwhois.io API** to extract peer IP addresses and associated metadata.
- Utilized a Tkinter-based graphical interface for real-time monitoring and data inspection of over 100 magnets and 1000+ peers per magnet simultaneously. **Tech stack:** Python, REST APIs (Jackett API, qBittorrent API, ipwhois). **Potential impact:** Detecting and disrupting illegal content distribution over P2P networks.

### HemoCnn — ML cell classifier

Apr 2025 – May 2025

- Trained a machine learning model using contrastive learning to classify basic cell types (Basophil, Eosinophil, Erythroblast, Immature Granulocyte (IG), Lymphocyte, Monocyte, Neutrophil & Platelet ).
- The model was trained on publicly available cell-image datasets and packaged into a standalone Windows application (.exe).
- Achieved over 89.38% accuracy in cell-type identification. **Tech stack:** Python, Pytorch. **Potential impact:** May be applied to automate RBC/WBC counting and assist in rapid blood smear analysis.

### Smart-Hydroponics-PCB

May 2025 – Jun 2025 May 2025 – Jun 2025

- Developed a PCB tailored for small scale hydroponics automation, enabling nutrient solution dosing based on TDS levels, while continuously tracking key parameters such as humidity, pH, and temperature.
- Employed an **Arduino UNO R3** interfaced with a 0.96 SSD1306 OLED display and sensor modules, which were linked to pumps responsible for filling and draining the system. **Tech stack:** C++, ArduinoIDE, KiCad. **Potential impact:** May assist in automating small scale hydroponic systems.

## Projects I'm working on

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### Research paper

Dec 2025 – Present

- Research paper on synthetic biochemical production in a decentralized and continuous manner. **Tech stack:** COPASI, SnapGene, ImageJ, ChimeraX. **Potential impact:** Illustrates a process that could potentially lower the cost of manufacturing medicines and improve their availability for people living in remote regions.

## Skills

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**Coding Tools:** C/C++, Python, MySQL, Git/Github

**Modeling Tools:** Fusion360, KiCad, ArduinoIDE, Blender

**Biotechnology Tools:** SnapGene, ImageJ, ChimeraX, Alphafold, AutoDock, COPASI.